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APPLICATION NO	.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/068,718		02/06/2002	David K. Mesecher	I-2-108.3US	9798	
24374	7590	12/15/2003		EXAMI	EXAMINER	
VOLPE AND KOENIG, P.C.				GHEBRETINSAE	GHEBRETINSAE, TEMESGHEN	
DEPT. ICC UNITED PLAZA, SUITE 1600				ART UNIT	PAPER NUMBÉR	
30 SOUTH 17TH STREET				2631		
PHILADELPHIA, PA 19103				DATE MAILED: 12/15/2003	, 10	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 10/068,718

Applicant(s)

Mesecher

Examiner

Temesghen Ghebretinsae

Art Unit **2631**



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). **Status** 1) Responsive to communication(s) filed on Sep 11, 2003 2a) This action is **FINAL**. 2b) X This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. **Disposition of Claims** is/are pending in the application. 4) 💢 Claim(s) 1-7 4a) Of the above, claim(s) ______ is/are withdrawn from consideration. 5) Claim(s) ______ is/are allowed. 6) X Claim(s) 1-7 is/are rejected. is/are objected to. 7) Claim(s) ______ 8) Laims are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on ______ is/are a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) \square The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). ___ 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6) Other:

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DETAILED ACTION

1. It would be of great assistance to the Office if all incoming papers pertaining to a filed application carried the following items:

- 1. Application number (checked for accuracy, including series code and serial no.).
- 2. Group art unit number (copied from most recent Office communication).
- 3. Filing date.
- 4. Name of the examiner who prepared the most recent Office action.
- 5. Title of invention.
- 6. Confirmation number (See MPEP § 503).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanzaki et al (5,652,764) in view of Yoshida et al (5,886,987).

Kanzaki discloses a plurality of transmitting antennas (31,32) for transmitting a plurality of data signals; data signal generator for producing a data signal; and a plurality of mixers

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(21,22) for producing the plurality of the data signal versions, each mixer for mixing the data signal with the different code to produce one of the versions for that mixer's coupled to antenna.

Kanzaki defers from the present claimed invention in that he dose not disclose means for transmitting a reference signal. However, Yoshida discloses a transmission /reception system comprising: a plurality of transmitting antennas (107-1-107-N) for transmitting a plurality of reference signal and data signals; a plurality of reference signal generators, each reference signal generator generating a code uniquely associated with its operatively coupled antenna (40-1-40-N; 104-1-104-N); a data signal generator for producing a data signal (10-1-10-N; 101-1-101-N); and a plurality of mixers (103-1-103-K; 105-1-105-N) for producing the plurality of the data signal. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit a plurality of reference signals using the plurality of antennas of Kanzaki since the is no new or unexpected result by doing so. (see fig.1, col.3, line 57 to col. 4, line 52)

The transmission format of Kanzaki is TDD.

Response to Arguments

4. Applicant's arguments with respect to claims 1-7 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gans et al (3,662,268) is cited to show diversity transmitter.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to T.Ghebretinsae whose telephone number is 703-305-4777. The examiner can normally be reached on Monday-Friday from 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammed Ghayour, can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

T.Ghebretinsae

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12/4/03

EMESGHEN GHEBRETINSAF